SB631185

POSTED

INFINITI. SERVICE BULLETIN

Classification:	Reference:	Date:
EC01-012	ITB01-029	June 1, 2001

MIL "ON" WITH DTC P0100 (MASS AIRFLOW SENSOR – MAFS) STORED

APPLIED VEHICLE: All 2000-01 I30 (CA33)
All 2002 Q45 (F50)

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MAY 2 1 2002

SERVICE INFORMATION

If an applied vehicle has DTC P0100 stored and possibly exhibits,

- Engine rough running
- Engine surging
- Low engine power

the cause may be a contaminated airflow sensor element. Contamination (i.e., dust, dirt, debris) can reach the element (and contaminate it) if:

- Air filter is dirty and has not been replaced per the maintenance schedule
- Dirt/dust/debris were not properly removed during prior service
- An aftermarket air filter was used

To resolve this incident, if it should occur, follow the steps outlined in the Service Procedure on page 2.

NOTE: Only the sensing element of the mass airflow sensor should be replaced – this is a separate removable part.

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SERVICE PROCEDURE

2000-01 I30 (CA33)

1. Remove the air filter element. Then, vacuum out all dust/dirt/debris found inside both halves of the air filter housing.

CAUTION: Make sure all dust/dirt/debris is removed from the air filter housing in order to prevent a repeat incident. Remember, only use a vacuum to remove dust/dirt/debris – do not blow compressed shop air inside the air filter housing.

2. Install a new genuine Nissan replacement air filter element and close up the air filter housing.
3. Remove the airflow sensor as follows:
   A. Disconnect the vehicle wire harness from the airflow sensor by pressing down on the release button and lifting up the connector (see Figure 1a).

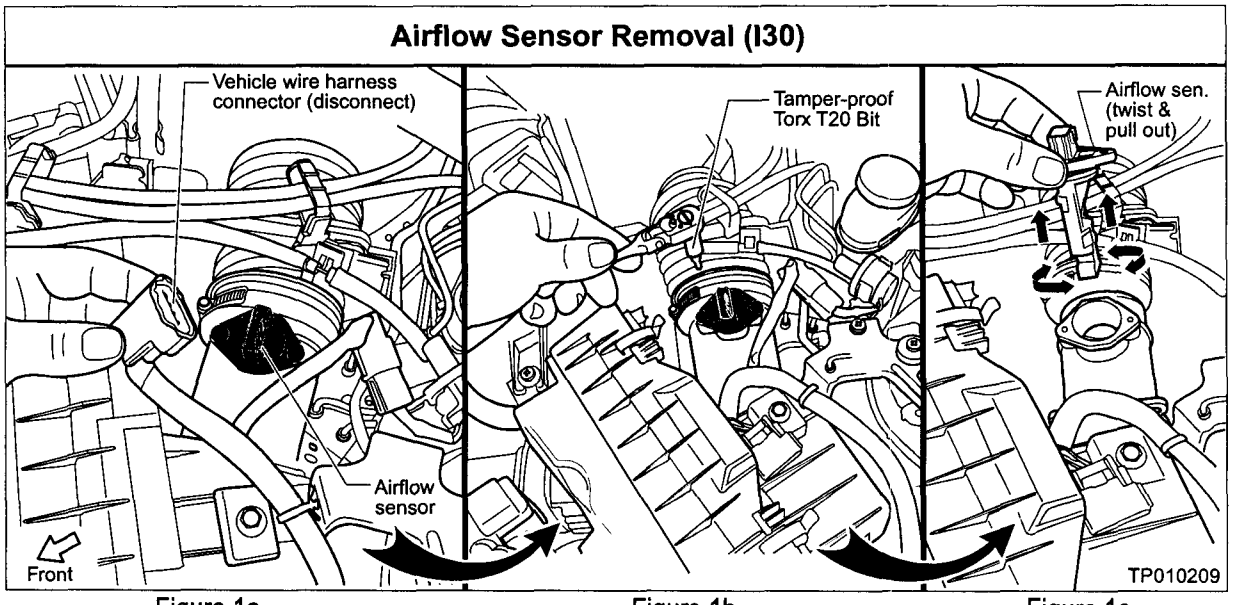

Figure 1a Figure 1b Figure 1c

   B. Wipe away any dust/dirt/debris from the airflow sensor and surrounding surfaces to prevent foreign matter from entering the airflow sensor housing/intake stream.
   C. Remove and save the two tamper-proof screws from the airflow sensor using a tamper-proof Torx T20 bit. See Figure 1b above.

NOTE: The tamper-proof Torx T20 bit can be ordered from SPX. The SPX P/N is 6143.

   D. Remove the airflow sensor by pulling upward with a side-to-side rotational motion (see Figure 1c).

CAUTION: Do not allow any foreign matter to enter the airflow sensor housing/intake stream.

4. Install the <u>new</u> airflow sensor (P/N 22680-AD210) using a downward and side-to-side rotational motion until it is fully seated.

NOTE: If it is difficult to fully seat the airflow sensor in the housing, you may apply a <u>thin</u> coat of **Texaco Canopus 13 Mineral Oil** to the o-ring. <u>Do not use any other lubricant besides this oil</u>. Refer to ITB98-019 for more information about the Canopus oil.

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5. Re-install and tighten the tamper-proof screws (in the airflow sensor) to 27 – 35 in-lbs.

CAUTION: If the screw threads in the airflow sensor housing are damaged (for whatever reason), you will have to order a complete new airflow sensor/housing assembly (P/N 22680-AD200).

6. Re-connect the vehicle harness to the new airflow sensor.

2002 Q45 (F50)

1. Remove two clips and remove the air filter housing cover trim panel (see Figure 2).

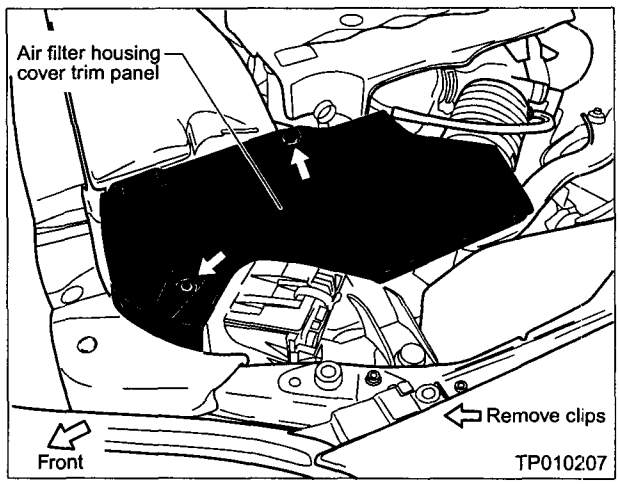

Figure 2

2. Remove the air filter element. Then, vacuum out all dust/dirt/debris found inside both halves of the air filter housing.

CAUTION: Make sure all dust/dirt/debris is removed from the air filter housing in order to prevent a repeat incident. Remember, only use a vacuum to remove dust/dirt/debris – do not blow compressed shop air inside the air filter housing.

3. Install a new genuine Nissan replacement air filter element and close up the air filter housing.

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4. Remove the airflow sensor as follows:

   A. Disconnect the vehicle wire harness from the airflow sensor by pressing down on the release button and pulling out the connector (see Figure 3a).

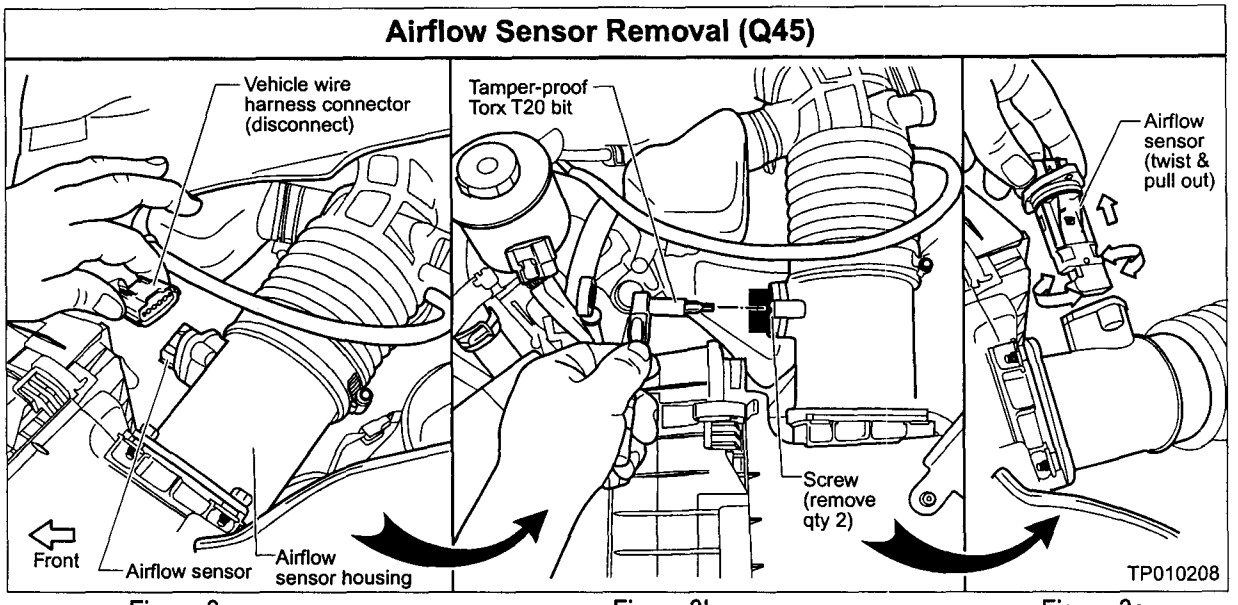

Figure 3a Figure 3b Figure 3c

   B. Wipe away any dust/dirt/debris from the airflow sensor and surrounding surfaces to prevent foreign matter from entering the airflow sensor housing/intake stream.

   C. Remove and save the two tamper-proof screws from the airflow sensor using a tamper-proof Torx T20 bit. See Figure 1b above.

   NOTE: The tamper-proof Torx T20 bit can be ordered from SPX. The SPX P/N is 6143.

   D. Remove the airflow sensor by pulling upward and with a side-to-side rotational motion (see Figure 3c).

   CAUTION: Do not allow any foreign matter to enter the airflow sensor housing/intake stream.

5. Install the <u>new</u> airflow sensor (P/N 22680-AR010) using a downward and side-to-side rotational motion until it is fully seated.

   NOTE: If it is difficult to fully seat the airflow sensor in the housing, you may apply a <u>thin</u> coat of **Texaco Canopus 13 Mineral Oil** to the o-ring. <u>Do not use any other lubricant besides this oil</u>. Refer to ITB98-019 for more information about the Canopus oil.

6. Re-install and tighten the tamper-proof screws (in the airflow sensor) to 27 – 35 in-lbs.

CAUTION: If the screw threads in the airflow sensor housing are damaged (for whatever reason), you will have to order a complete new airflow sensor/housing assembly (P/N 22680-AR000).

7. Re-connect the vehicle harness to the new airflow sensor.

8. Re-install the air filter housing cover trim panel.

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PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
Meter Assembly – Air (I30)	22680-AD210	1
Meter Assembly – Air (Q45)	22680-AR010	1
Air Filter Element (I30)	16546-V0110	1
Air Filter Element (Q45)	16546-AR000	1

CLAIMS INFORMATION

NOTE: This is the ONLY approved repair procedure for this incident. A claim to Infiniti for the repair of this incident may be denied if the repair is not performed exactly as outlined in this bulletin (1).

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace Airflow Sensor	(2)	DX02AA	HD	22	0.3 hrs
Diagnosis – DTC P0100		EE01AA			0.4 hrs (I30) 0.3 hrs (Q45)

(1) Please note that if there is evidence of customer modification to the air cleaner (aftermarket air filter element, intake air system, etc.) or to the airflow sensor (attempt to modify the sensor for greater performance) this may void the vehicle's powertrain warranty.

(2) Reference the Parts Information table above and use the indicated airflow sensor P/N as the PFP.